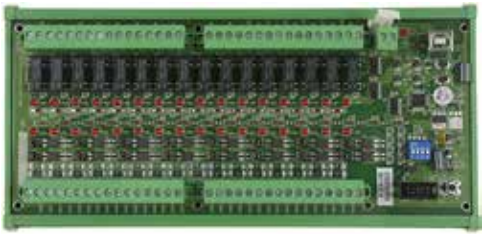

USB Relay - Opto - A/D

PCI/ISA Relay - Opto - A/D

PCI/ISA 8255

RS-232/422/485

MERZ

DECISION-COMPUTER

PC-Zubehör für Industrie - Labor - Automation seit 1986

10/2014

Information on ordering

How to order (choose from the following):

– Send us an email with your order and your preferred method of payment (see below). Depending on your desired method of payment, you will either directly receive the merchandise, an advance invoice, or information on the final amount due (by credit card) – see more below. If necessary, we will contact you by email for additional information.

or:
– Print our order form (pdf download www.decision-computer.de/kat.html) and send it to us by fax or mail. The rest is explained on the form. Fax: ++49 (0)5483 77003

or:
– Send us a letter with your order and your preferred method of payment (see below) or give us a call. Depending on your desired method of payment, you will either directly receive the merchandise, an advance invoice, or information on the final amount due (by credit card) – see more below. If necessary, we will contact you for additional information.
(Please take note of our Terms of Supply)

Methods of payment (choose form the following):

– By credit card. We will inform you of the final amount incl. postage, taxes and transfer costs by email/fax/letter. You then send us the payment authorisation with your credit card information. When the amount has been successfully transfered from your credit card account, you will receive the ordered books by mail with an invoice for your records.
(Please never send us any credit card information by email, only by fax, telephone, or letter.)

or:
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Please ask us for our Bank account number, German bank code, IBAN, and BIC (swift-code).

or:
– From Europe (outside of Germany) per postal money order. We will send you an advance invoice (no bank charges!).

or:
– NEW! – as of 1 July 2003 – from countries with EURO-currency (outside of Germany) per bank money order using the IBAN and the BIC (no transfer charges): ask your bank. We will send you an advance invoice.
Please ask us for our Bank account number, German bank code, IBAN, and BIC (swift-code).

or:
– Paypal

or:
– Customers in foreign countries who wish another form of payment should contact us.

MERZ DECISION-COMPUTER

PC-Zubehör für Industrie - Labor - Automation seit 1986

Distributor für Decision-Group Taiwan R.O.C.

CATALOGUE + QUOTATION FOR RESELLER 10/2014

All prices are net in euro plus VAT

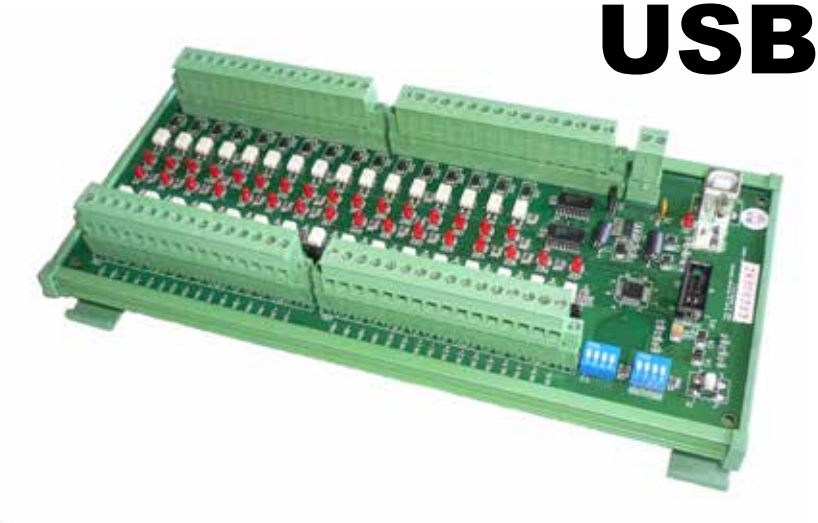
USB - PCI - ISA

Digital-I/O - 8255- Relay - Opto - AD/DA

You can download this catalogue at www.decision-computer.de/kat.html

Due to the price change notice from PLX with price increases at PLX PCI chipset, to our valued customers and partners, the similar adjustments must be made at Decision Group to allow us to continue providing you with the excellent quality of product solution and service that you expect.

USB I/O



USB-Boards from stock:

- LAB-Board (USB-STARTER)
- 4 Optoisolated Input + 4 Relay Output
- 8 Optoisolated Input + 8 Relay Output + 16 DIO
- 16 Optoisolated Input + 16 Optoisolated Input
- 16 Optoisolated Input + 16 Relay Output
- 16 Optoisolated Input + 16 SSR Output
- 16 Optoisolated Input
- 16 Relay Output
- 32 Optoisolated Input
- 32 Relay Output
- 16 Bit ADDA
- 4 Port USB to RS232/422/485

The bestseller the PRO-Version including DIN-Rail-Mounting, interchangeable screw-terminals and EMI-Kit is normally in stock. A cheaper version without DIN-Rail-Mounting or the low-cost version without DIN-Rail-Mounting and with standard-screwterminals must be ordered. Please ask!

Spec for all USB Items:

- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET
- USB 2.0

LED correspond to I/O ports activation status.
Easy exchange by interchangeable screw-terminals

Powersupply 5V DC external. Not included!

Software/Driver:
Windows-XP, Vista, WIN-7/8 use HID-interface and sample for programming, Linux driver and sample for programming.

Easy exchange by interchangeable screw-terminals

For direct DIN-Rail mounting Also as board without DIN-Rail-adapter available.

USB-Starter

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
U-START	26,00	25,00	24,00

Evaluation-Kit

USB LAB Starter KIT

Product Code: AUSBSTARTER USB STARTER

- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET
- POWER From USB
- Support Independent input/output channels.
- Support 6 channels 10 BIT 0~10V ADC input
- Support 8bit digital input
- Support 8bit digital output
- Operating temperature range from 0 to 55C.
- Relative humidity rage from 0 to 90%
- Size: 115 mm x 80 mm x 12 mm

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

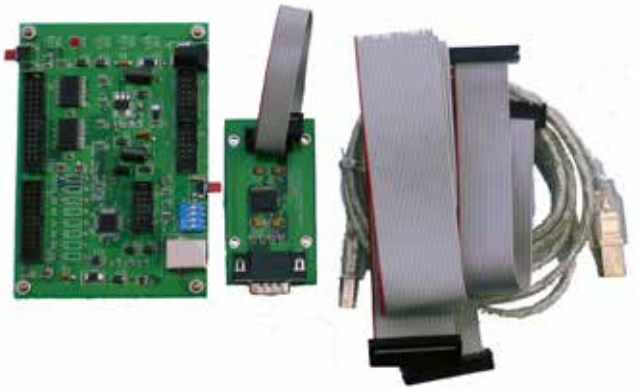
USB-Labor

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
ULK-1	47,--	45,--	43,--

- Support Independent input/output channels.
- Support 6 channels 10 BIT 0~10V ADC input
- Support 8bit digital input
- Support 8bit digital output
- 1 port serial RS232
- 1 port serial RS422/485

Features:

- •HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET
- POWER USB or DC+5V3A DC ADAPTOR
- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%



Software/Driver:
Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming.Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

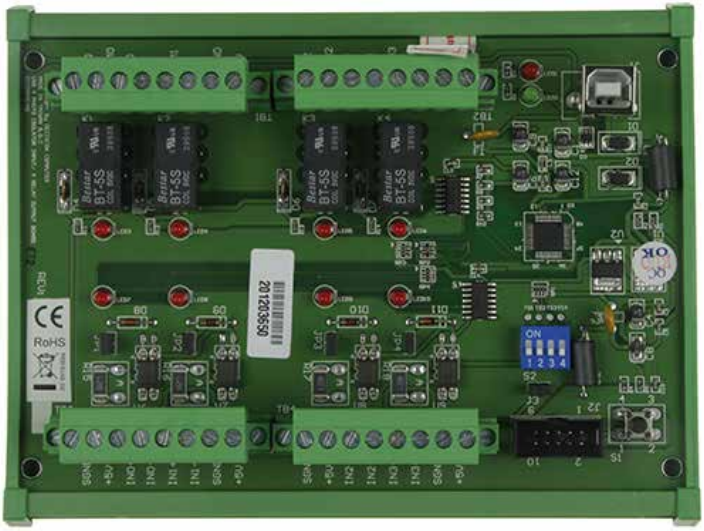
Package includes the following items:

- USB LAB KITS.
- USB cable.
- One 26 pins flat cable for digital I/O, one 20 pins flat cable for analog to digital, and one 10 pins flat cable for RS232/RS422/RS485 port.
- Extension board with DB9 connector, select one of the following:
- 1. RS232 - 2. RS422/RS485
- Decision Studio and User’s manual CD.

USB 4 Relays/4 Opto-In

4 Optoisolated Input + 4 Relay Output

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHRO-4	91,--	85,--	79,--
Platine / Board	UPRO-4	77,--	72,--	67,--



Bus: USB 2.0

Description:

- 4 photo couple input / relay output channels
- Input maximum load voltage is 30V
- By jumper, you can select two range of voltage 0 - 4.5V off and 6V - 20V on. (0 - 20V) 0 - 16.5V off and 18 - 30V on (0 - 30V)
- PC817 photo couple chips, 5000V isolation voltage.
- 4 SPDT-Relays - 1 x COM/NO/NC
- Maximum current 1000mA, Maximum 30V
- 8 LED correspond to I/O ports activation status

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET
- POWER DC+5V 1A DC ADAPTOR (optional)
- Easy exchange by interchangeable screw-terminals
- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size:160 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

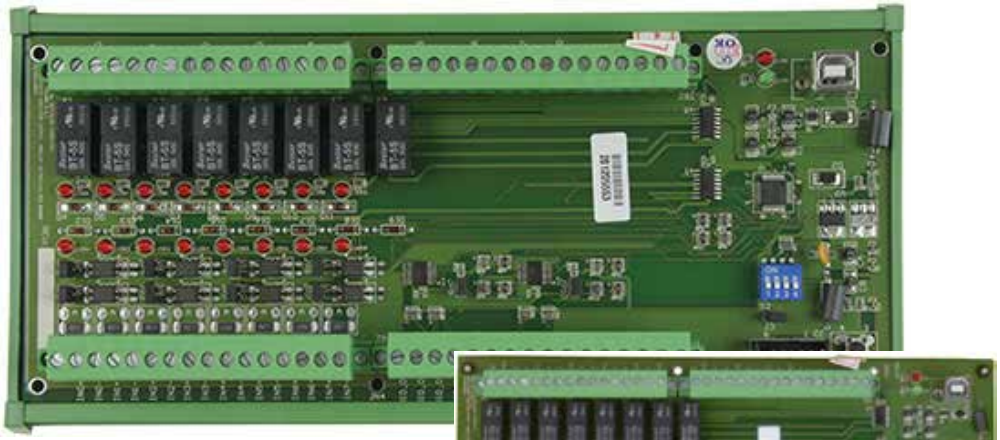
Package includes the following items:

- USB Board
- USB cable
- Software/Manual CD

USB 8 Relays/8 Opto-In

8 Optoisolated Input + 8 Relay Output
+ 16 Digital-I/O

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHRO-8	123,--	115,--	107,--
Platine / Board	UPRO-8	106,--	99,--	92,--



UHRO-8

UPRO-8

Bus: USB 2.0

Funktion:

Description:

- 8 photo couple input / relay output channels
- Input maximum load voltage is 30V - By jumper, you can select two range of voltage 0 - 4.5V off and 6V - 20V on. (0 - 20V) 0 - 16.5V off and 18 - 30V on (0 - 30V)
- PC817 photo couple chips, 5000V isolation voltage.
- 8 SPDT-Relays - 1 x COM/NO/NC
- Maximum current 1000mA, Maximum 30V
- 16 LED correspond to I/O ports activation status
- 16 digital I/O

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1A DC ADAPTOR (optional)
- Easy exchange by interchangeable screw-terminals

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

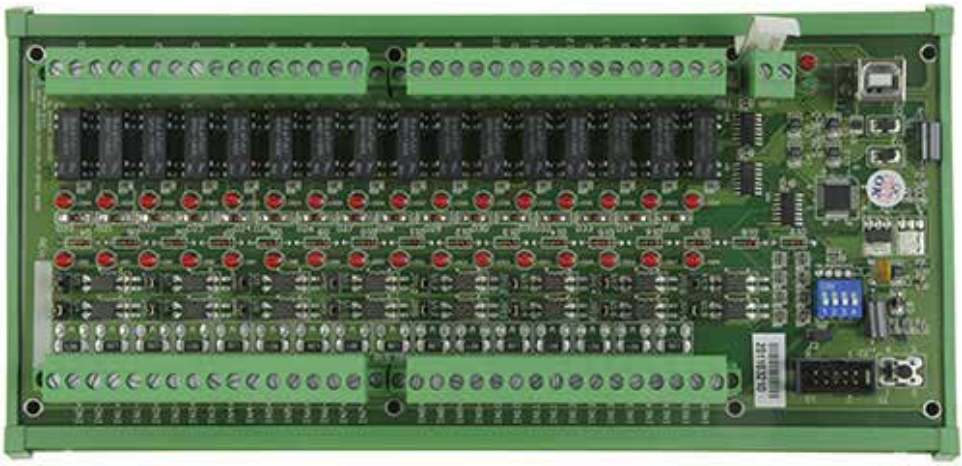
Package includes the following items:

- USB 8PR Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB-I/O

16 Opto-Isolated Input
+ 16 Relays Output

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€10 +
DIN+ EMI-Kit	UHRO-16	122,--	114,--	105,--
Platine / Board	UPRO-16	104,--	98,--	91,--



UHRO-16

Bus: USB 2.0

Description:

- 16 photo couple input / relay output channels
- Input maximum load voltage is 30V
- By jumper, you can select two range of voltage
  0 - 4.5V off and 6V - 20V on. (0 - 20V)
  0 - 16.5V off and 18 - 30V on (0 - 30V)
- PC817 photo couple chips, 5000V isolation voltage.
- 16 SPDT-Relays - 1 x COM/NO
- Maximum current 500mA, Maximum 30V
- 16 LED correspond to I/O ports activation status.

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET
- POWER DC+5V 1A DC ADAPTOR (optional)
- Easy exchange by interchangeable screw-terminals
- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

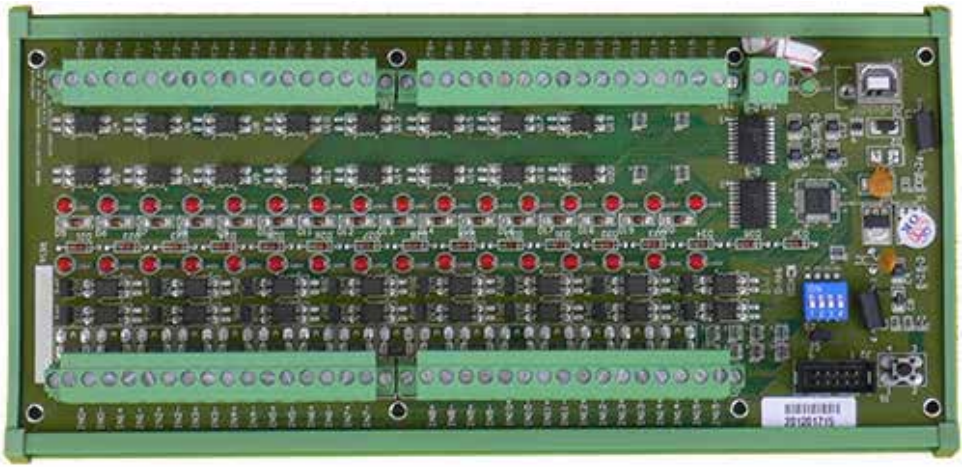
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 16PR Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
16 Optoisolator + 16 SSR

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHOS-16	189,--	179,--	169,--
Platine / Board	UPOS-16	171,--	163,--	155,--



Bus: USB 2.0

Description:

- Support 16 photo couple input/output channels
- Input max. load is 30V
- By jumper, you can select two range of voltage
  0 - 4.5V off and 6V - 20V on.
  0 - 16.5V off and 18 - 30V on
- PC817 photo couple chips.
- 5000V isolation voltage.
- 16 SSR KAQY212HA
- Output Breakdown Voltage …… ± 60V
- Continuous Load Current …… ± 400mA
- Peak Forward Current …… 1A
- Isolation Test Voltage …… 5000VACrms

- 32 LED correspond to I/O ports activation status.
- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.

- Relative humidity range: from 0 to 90%.
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

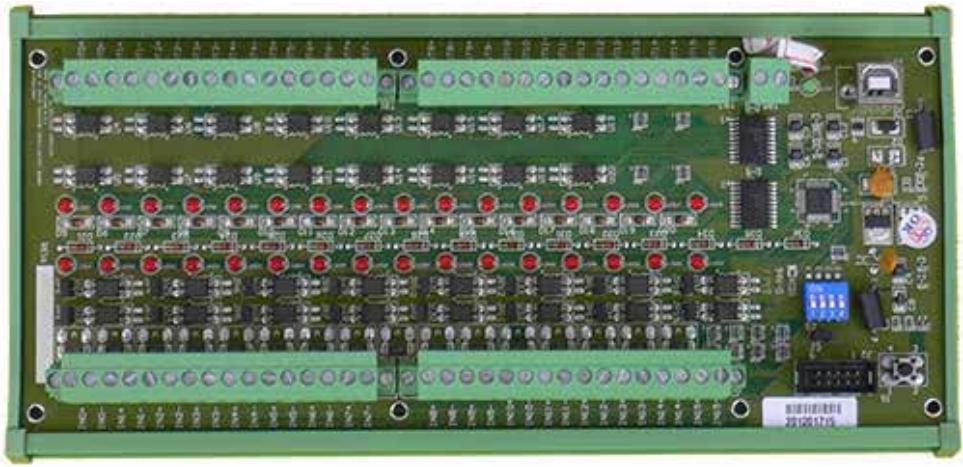
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 16PR Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
16 Opto-Isolated Input + 16 Opto-Isolated Output

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHOO-16	136,--	127,--	118,--
Platine / Board	UPOO-16	118,--	111,--	104,--



Bus: USB 2.0

Description:

- Support 16 photo couple input/output channels
- Input max. load is 30V
- By jumper, you can select two range of voltage
  0 - 4.5V off and 6V - 20V on.
  0 - 16.5V off and 18 - 30V on
- PC817 photo couple chips.
- 5000V isolation voltage.
- Output voltage : Vcd = 35V, Vec = 6V, and max. Collector current 50mA. (Max continuous current < 30mA.)

- 32 LED correspond to I/O ports activation status.
- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.

- Relative humidity range: from 0 to 90%.
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

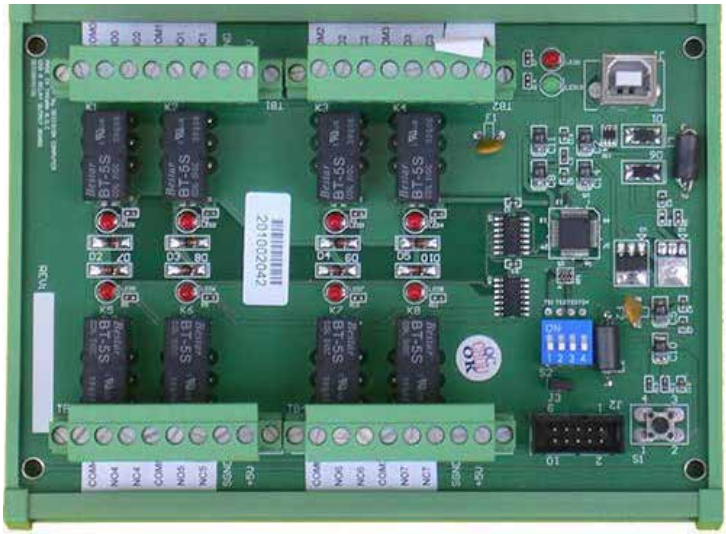
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB PP Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
8 Relay Output

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHR-8	112,--	104,--	97,--
Platine / Board	UPR-8	98,--	92,--	85,--



Bus: USB 2.0

Description:

- 8 photo couple relay output channels
- 8 SPDT-Relays - 1 x COM/NO/NC
- Maximum current 1000mA, Maximum 30V
- 8 LED correspond to I/O ports activation status.
- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 160 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

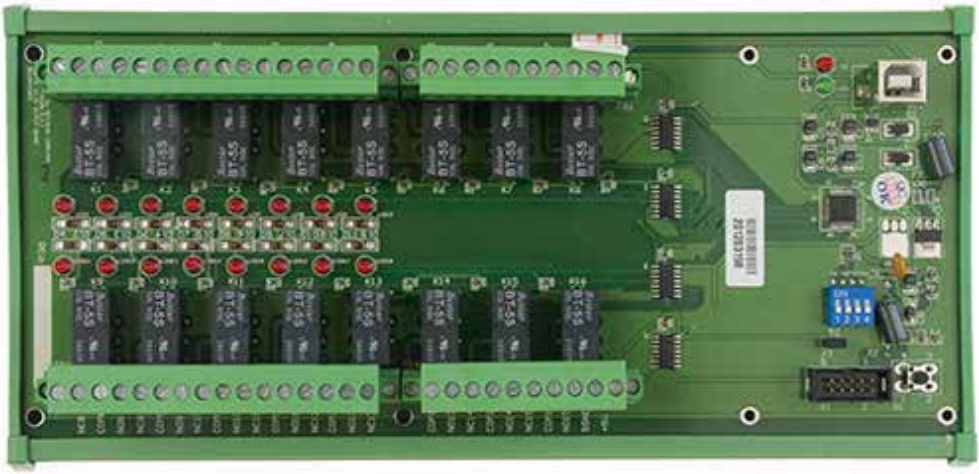
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 8R Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
16 Relays Output Channels

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHR-16	151,--	141,--	130,--
Platine / Board	UPR-16	132,--	125,--	116,--



Bus: USB 2.0

Description:

- 16 SPDT-Relays - 1 x COM/NO/NC
- Maximum current 1000mA
- Maximum 30V
- 16 LED correspond to I/O ports activation status.
- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%.
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

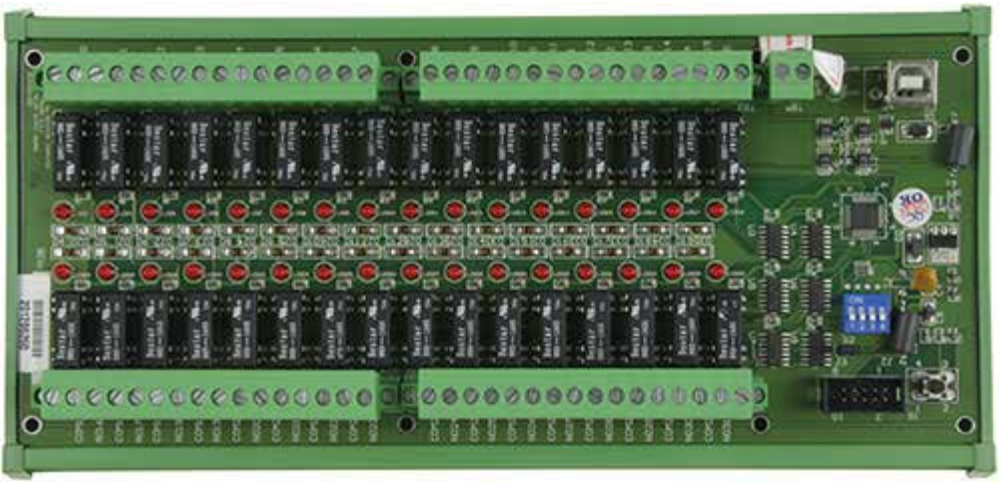
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 16R Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
32 Relays Output

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHR-32	144,--	136,--	127,--
Platine / Board	UPR-32	128,--	120,--	112,--



Bus: USB 2.0

Description:

- 32 SPDT-Relays - 1 x COM/NO
- Maximum current 500mA
- Maximum 30V
- 32 LED correspond to I/O ports activation status.
- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1,5A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C
- Relative humidity rage: from 0 to 90%.
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

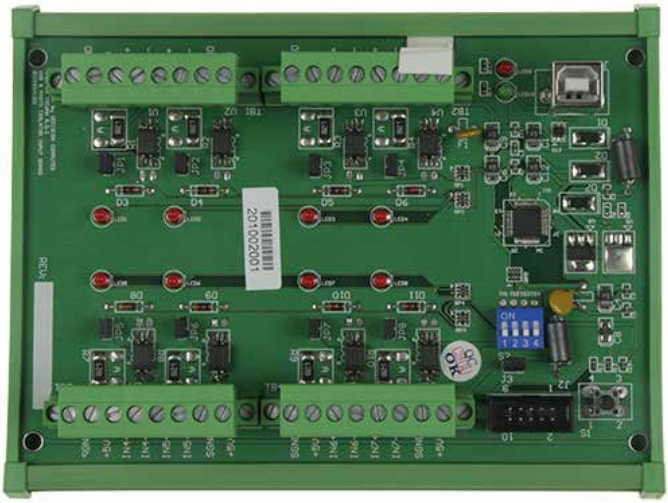
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 32R Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
8 Optoisolated Inputs

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHO-8	99,--	93,--	86,--
Platine / Board	UPO-8	85,--	79,--	74,--



Bus: USB 2.0

Description:

- 8 photo couple input channels
- Input maximum load voltage is 30V
- By jumper, you can select two range of voltage
- 0 - 4.5V off and 6V - 20V on. (0 - 20V)
- 0 - 16.5V off and 18 - 30V on (0 - 30V)
- PC817 photo couple chips.
- 5000V isolation voltage.

- 8 LED correspond to I/O ports activation status

- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 0.5A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 160 mm x 120 mm x 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

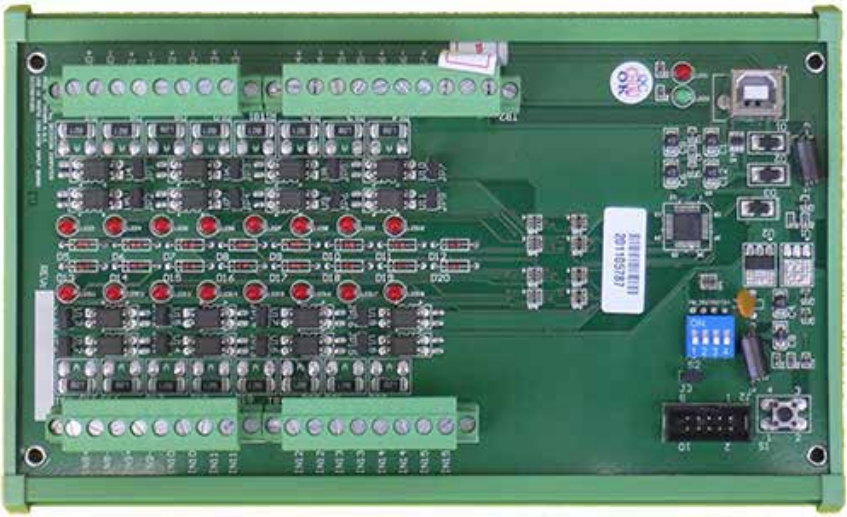
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 8P Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
16 Opto-Isolated Input

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€10 +
DIN + EMI-Kit	UHO-16	117,--	109,--	101,--
Platine / Board	UPO-16	101,--	95,--	88,--



Bus: USB 2.0

Description:

- 16 photo couple input channels
- 16 photo couple input channels
- Input maximum load voltage is 30V
- By jumper, you can select two range of voltage
  0 - 4.5V off and 6V - 20V on. (0 - 20V)
  0 - 16.5V off and 18 - 30V on (0 - 30V)
- PC817 photo couple chips.
- 5000V isolation voltage.
- 16 LED correspond to I/O ports activation status

- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 0.5A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 200 mm x 120 mm x 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

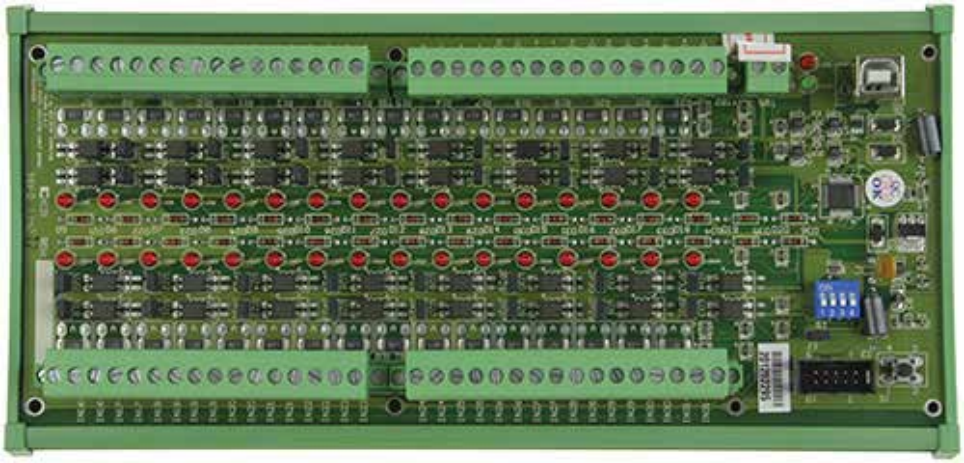
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 16P Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
32 Opto-Isolated Input

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI-Kit	UHO-32	141,--	132,--	122,--
Platine / Board	UPO-32	123,--	116,--	107,--



Bus: USB 2.0

Description:

- 32 photo couple input channels
- Input maximum load voltage is 30V
- By jumper, you can select two range of voltage
  0 - 4.5V off and 6V - 20V on. (0 - 20V)
  0 - 16.5V off and 18 - 30V on (0 - 30V)
- PC817 photo couple chips.
- 5000V isolation voltage.

- 32 LED correspond to I/O ports activation status

- Easy exchange by interchangeable screw-terminals

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available

- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+5V 1A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB 32P Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB
AD/DA 16 Bit

12V or 24V Version

	Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DIN + EMI 12V	UHAD-161	274,--	257,--	240,--
Platine / Board 12V	UPAD-161	256,--	240,--	224,--
DIN + EMI 24V	UHAD-162	284,--	267,--	250,--
Platine / Board 24V	UHAD-162	266,--	250,--	234,--

Bus: USB 2.0

Description:

1 digital input/digital output channels and the resolution is 16 bits.

16 A/D channels and the resolution is 16 bits.
- A/D input voltage range:
- 0 TO +5 V (10 V p-p), 0 TO +10 V (20 V p-p) for unipolar,
- -5 V TO +5V (20 V p-p), -10 V TO +10V (40 V p-p) for bipolar.

2 D/A channels and the resolution is 16 bits.
- D/A Current output ranges:
- 4 mA to 20 mA, 0 mA to 20 mA, 0 mA to 24 mA
- ±0.01 % FSR typical total unadjusted error (TUE) ±3 ppm/°C
- D/A Voltage output ranges:
- 0 V to 5 V, 0 V to 10 V, ±5 V, ±10 V
- 10% overrange
- ±0.01 % FSR typical total unadjusted error (TUE) ±2 ppm/°C output drift
- 2500V isolation voltage

Features:

- For direct DIN-Rail mounting
- Also as board without DIN-Rail-adapter available
- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET
- Support RS-232/422/485 Communicate (optional)
- POWER from External DC+12V 1.5A (≥ 1.5A)
- Operating temp. range: from 0 to 55C.
- Relative humidity range: from 0 to 90%
- Size: 250 mm - 120 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; CDC/ACM virtual com port. Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

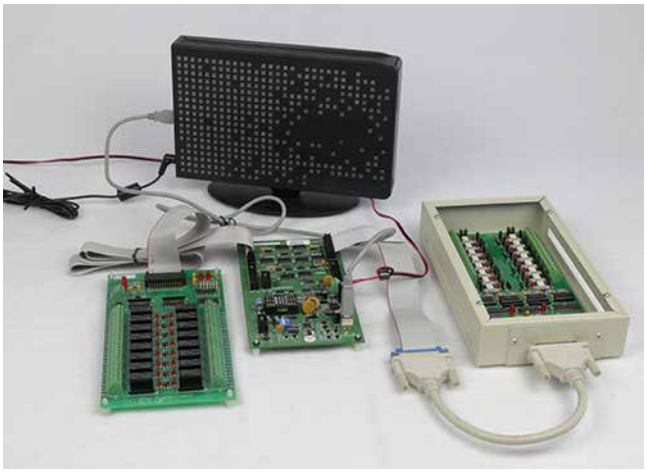
USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

Package includes the following items:

- USB ADDA Board
- EMI-Kit (DIN-Rail only)
- USB cable
- Software/Manual CD

USB-Industrial

Artikel-Nr. / Item-No	€ 1 +	€ 3 - 9	€10 +
UP-IND	145,--	138,--	128,--



Bus: USB 2.0

Description:

- 8 digital input/output channels
- Each digital I/O provides voltage range from
  0V to 5V, where 0 to 2.5V is OFF and
  2.8V to 5V is ON.

- Allows PC to connect up to 4 DECISION INDUSTRIAL AUTOMATION CARD:
  8 channel relay output/Photo isolator input board,
  8 channel SSR relay output / photo isolator input board
  6 channel relay output board
  16 channel Photo isolator input board

Features:

- HIgh Speed 8051 µC Core
- USB 2.0 Function Controller
- On-Chip Debug
- Support USB ID 0~14 SET

- POWER DC+12V 1.5A DC ADAPTOR (optional)

- Operating temp. range: from 0 to 55C.
- Relative humidity rage: from 0 to 90%
- Size: 200 mm - 100 mm - 55 mm

Software/Driver:

Support Windows XP/Vista/7/8, Windows server 2003/2008/2012; Linux kernel version 2.4 or the later and the sample for programming

Per shipping you receive freshly burned „Decision Computer Germany service CD“ with current drivers, manuals, installation guidances and German additional information. The extent depends on the product!

EMI-Kit for Din-Rail-Module incl.

USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable.

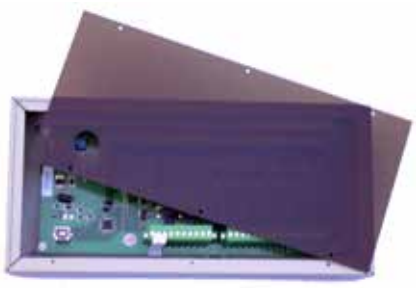
Package includes the following items:

- USB Industrial Board
- USB cable
- Software/Manual CD

Metalcase for USB

Suitable for 25cm USB-Boards

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
UGEH-1			



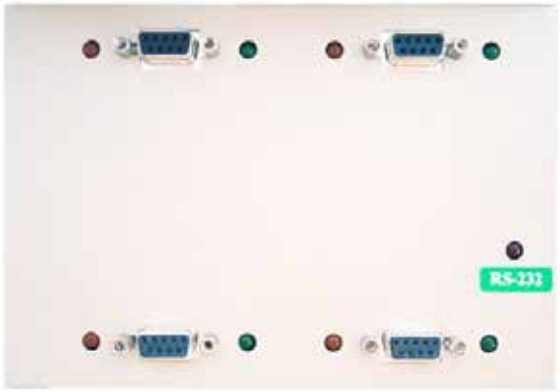
USB-EMI
EMI protection for the USB wiring

USB wiring is very sensitive to EMI errors (mainly sparking when opening contacts). The Kit (U-EMI-1) includes two Würth folded cores for the USB data cable and a Ferrite sleeve for the power supply cable. If you are using a HUB, it should be protected the connection HUB/computer (U-EMI-2)! The kit includes two Würth folded cores for the USB data cable.

The U-EMI-1 Kit is included in may included all DIN-rail USB modules and can be ordered at the single-board version if required at an additional cost.

USB 4 x Seriell
RS232 - RS422 - RS485
Isolated

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
US4-232			
US4-422			
US4-485			



Features:

Item-No US4-232 = RS-232
Item-No US4-422 = RS-422
Item-No US4-485 = RS-485

- USB 2.0 Compliant Interface
- Supports 12 Mbps USB full-speed data rate
- Supports USB suspend, resume and remote wakeup operations
- Enhanced Features of each UART
- Data rates up to 12 Mbps
- Fractional Baud Rate Generator
- 128 byte TX FIFO
- 384 byte RX FIFO
- 7, 8 or 9 data bits, 1 or 2 stop bits
- Automatic Hardware (RTS/CTS) Flow Control
- Automatic Software (Xon/Xoff) Flow Control
- Multidrop mode w/ Auto Half-Duplex Transceiver Control
- Multidrop mode w/ Auto TX Enable

- POWER From DC+5V/500mA External POWER
- EIA RS232 to EIA RS485/RS422 isolator input and output.
- Communication speeds up to 230 K bps.
- Transmit distance up to 4000ft.
- Allow the photo input signals to be completely floated and prevent the ground loops
- Heavy-duty optical couplers and a transformer isolated DC-to-DC converter to provide significantly higher electrical isolation - 5000V DC surge (1 minute) 5000V rms continuous.

Software/Driver:

- Virtual COM Port drivers
- Windows 2000, XP and Vista, Windows 7
- Linux

Operating temperature range: -10 ~ 55C.
Relative humidity rage: 0 ~ 90%.
Size: 160 mm x 112 mm x 25 mm

Powersupply

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
PS-5-2H	19,00	18,00	17,00
PS-5-3H	19,00	18,00	17,00
PS-5-5H	24,20	23,50	22,50
PS-12-3H	24,20	23,50	22,50
PSX-08	9,80	9,20	8,80
PSX-12	9,80	9,20	8,80
PS-5-3	12,60	12,00	11,00
PS-5-5	17,50	16,20	15,50
PS-5-7	18,50	17,20	16,50
PS-5-12	24,50	23,50	21,00

Item-No.: PS-X-08

Primary Switched Power Adapter

- 100-240V AC 50/60Hz
- 3-4,5V 1600mA
- 6V 1500mA
- 9V1000mA
- 12V 800mA

Item-No.: PS-5-3H

Primary Switched Power Adapter

- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100-240V AC 50/60Hz
- Din-Rail - 5V 3A
- 22,5x90x100mm

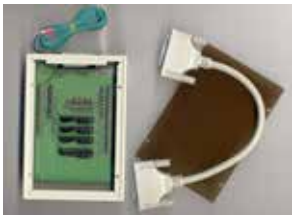
Item-No.: PS-5-5

Prmary Switched Power Adapter

- 100-240V AC 50/60Hz
- 5V 5A
- 78x51x28 mm

PCI Relay-Opto 4 I/O

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
RELOP-4P	118,--	114,--	111,--
RELOP-4T	124,--	122,--	92,--



Item-No.: RELOP-4T

Addon for RELOP-4P with
4 AC-SSR A5P-204U

The PCI bus 4 channels relay output / photo isolator input adapter is a 32 bits PCI bus board with Plug and Play (PnP) features, it is a programmable I/O interface card for PC/486, Pentium, or compatibles. The PnP features let hardware configuration for IRQ and I/O address is detected by BIOS automatically, you don't need set switch and jumper.

The PCI bus 4 channels relay output / photo isolator input adapter provides relay output functions and photo isolator input functions. The relay output part provides 4 relays to drive 4 different output channels. Each relay channel can be used to control ON / OFF of external devices, to drive external high power relays, to activate alarms ... etc. The photo isolator input part provides 4 photo couple digital input channels, which allow the input signals to be completely floated and prevent the ground loop.

The PCI bus 4 channels relay output / photo isolator input adapter can be used to connect to terminal board, which provides relay output and photo couple digital input, and can be used to control SSR devices.

Please refer to Decision Industrial Interface (DII) software manual to know how to install the device driver for PCI Bus 4 Channel Relay Output Photo Isolator Input adapter, and how to write application program by using Active-X components.

Bus: 32 bits PCI bus with Plug and Play (PnP) features.

Function:

- Support 4 relay output channels and 4 photo couple input channels.
- Max contact rating for relay: 120V AC/DC 1AMP.
- Attraction time for relay: 3 ms.
- Fall off time for relay: 2 ms.
- Isolation resistance for relay: 100M OHM.
- Life expectancy for relay: 100 million operations at signal level load.
- Allow the photo input signals to be completely floated and prevent the ground loops.
- Activation voltage: 0 to 30V or Switch.
- Supports terminal board and control SSR.

Software/Driver:

English manual with adjusting plan, terminal diagram, data sheets and sample programs Windows-98/NT/2000/XP,Vista, Win-7, Win-8, Linux driver or info

The package contains:
RELOP-4P Board, Software-CD, Manual

PCI Relay-Opto 8 I/O

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
RELOP-8P	151,--	142,--	132,--

The PCI bus 8 channels relay output / photo isolator input adapter is a 32 bits PCI bus board with Plug and Play (PnP) features, it is a programmable I/O interface card for PC/486, Pentium, or compatibles. The PnP features let hardware configuration for IRQ and I/O address is detected by BIOS automatically, you don't need set switch and jumper.

The PCI bus 8 channels relay output / photo isolator input adapter provides relay output functions and photo isolator input functions. The relay output part provides 8 relays to drive 8 different output channels. Each relay channel can be used to control ON / OFF of external devices, to drive external high power relays, to activate alarms ... etc. The photo isolator input part provides 8 photo couple digital input channels, which allow the input signals to be completely floated and prevent the ground loop.

Please refer Decision Industrial Interface (DII) Software manual to know how to install device driver for PCI bus 8 Port Channels Relay Output/ Photo Isolator Input adapters, and how to write application program by using Active-X Components.

Bus: 32 bits PCI bus with Plug and Play (PnP) features

Function:

- Support 8 relay output channels and 8 photo couple input channels
- Max contact rating for relay: 120V AC/DC 1AMP.
- Attraction time for relay: 3 ms
- Fall off time for relay: 2 ms.
- Isolation resistance for relay: 100M OHM
- Life expectancy for relay: 100 million operations at signal level load.
- Allow the photo input signals to be completely floated and prevent the ground loops.
- Activation voltage: 0 to 30V or Switch

Software/Driver:

English manual with adjusting plan, terminal diagram, data sheets and sample programs. Windows-98/NT/2000/XP,Vista, Win-7, Win-8, Linux driver or info

The package contains:
RELOP-8P Board, Software-CD, Manual

PCI Relay-Opto 16 I/O

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
RELOP-16P	151,--	142,--	132,-

The PCI 16 channels relay output / photo isolator input adapter is a 32 bits PCI bus board with Plug and Play (PnP) features, it is a programmable I/O interface card for PC/486, Pentium, or compatibles. The PnP features let hardware configuration for IRQ and I/O address is detected by BIOS automatically, you don't need set switch and jumper.

The PCI 16 channels relay output / photo isolator input adapter provides relay output functions. The relay output part provides 16 relays to drive 16 different output channels. Each relay channel can be used to control ON/ OFF of external devices, to drive external power relays, to activate alarms etc.

The photo isolator input part provides 16 photo couple digital input channels, which allow the input signals to be completely floated and prevent the ground loop.

Bus: 32 bits PCI bus with Plug and Play (PnP) features.

Function:

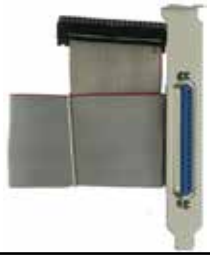
- Support 16 relay output channels and 16 photo couple input channels
- Max contact rating for relay: 70V/AC, 100V/DC 0.25AMP
- Response time for relay: 1 ms minimum.
- Contact resistance for relay: 0.2 OHM maximum.
- Support several operating modes that are programmable.
- 16 Optoisolator input - Isolation 500 V max
- High 2-30 V or 17-30 V by jumper

Software/Driver:

English manual with adjusting plan, terminal diagram, data sheets and sample programs Windows-98/NT/2000/XP,Vista, Win-7, Win-8, Linux driver or info

The package contains:

RELOP-16 Board, flat cable with 37 pins connector. Software-CD, Manual



PCI
16 Opto-In / 16 SSR

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€10 +
OPSSR-16P	178,--	168,--	160,-

Bus:32 bits PCI bus with Plug and Play (PnP) features.

Function:
Support 16 photo couple input / 16 SSR-relays output channels.
16 LED correspond to 16 output ports activation status.

16 SSR relais-output KAQY212HA:
Output Breakdown Voltage …… ± 60V
Continuous Load Current …… ± 400mA
Peak Forward Current …… 1A
Isolation Test Voltage …… 5000VACrms

16 Optoisolator Inputs
1500V isolation voltage.
Maximum load voltage is 30V
Maximum 80mA input current

Connection by DB-37 in the slotbracket

Software/Driver:

English manual with adjusting plan, terminal diagram, data sheets and sample programs Windows-98/NT/2000/XP,Vista, Win-7, Win-8, Linux driver or info

The package contains:

OSSR-16 Board, flat cable with 37 pins connector. Software-CD, Manual

PCI Opto-Opto 16 I/O

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
OPOP-16P	151,--	142,--	132,--

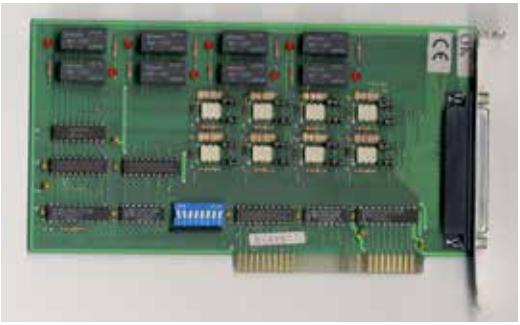
Item-No.: OPOP-16P

32 Bit PCI card with PnP Features
Support 16 photo-isolated output channels and 16 photo-isolated input channels
Breakdown voltage: 500V
High Level 2-30 V or 17-30 V by jumper
Connection with DB-37 in the Slotbracket
German bulk manual and English manual with adjusting plan, terminal diagram, data sheets and sample programs
Windows-98/NT/2000/XP,Vista, Linux driver or info

ISA Relay-Opto 8 I/0

Smatlab-8

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
RELOP-8	88,--	82,--	71,50



Item-No.: RELOP-8

Digital I/0 card - support 8 SPDT Relay and 8 photo-isolated input channels
LED indicates when relay is energized
High Level 3-45V - Low Level 0-2V
I/0-Address (100H - 3F8H)
Connection with DB-37 in the Slotbracket
Breakdown voltage: 500V
Max. contact rating 150V/DC 1A, 125V/AC
Relay on 3 ms typ, Relay off 2 ms typ,
Switching time 10 ms typical
Isolation resistance: 100M typ
Connection with DB-37 on the slotbracket
8-Bit PC-add-on-card
English manual with adjusting plan, terminal diagram, data sheets and sample programs
Windows-95/NT/2000/XP, Linux, DOS driver or info

ISA Relay-Opto 16 I/0

Smatlab-16

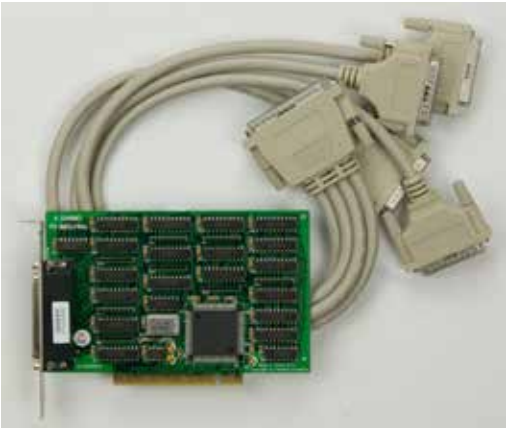
Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
RELOP-16	110,--	98,--	87,--

Item-No.: RELOP-16

Support 16 SPDT Relay and 16 photo-isolated input channels High Level 3-45V - Low Level 0-2V
I/0-Address (100H - 3F8H)
Breakdown voltage: 500V
Max. contact rating 150V/DC 0,5A, 125V/AC
Relay on 3 ms typ, Relay off 2 ms typ,
Switching time 10 ms typical
Isolation resistance: 100M typ
Connection with IDC-40-pin
8-Bit PC-add-on-card
Optionally available :DB-37 adapter (ADAP37).
German bulk manual and English manual with adjusting plan, terminal diagram, data sheets and sample programs
Windows-95/NT/2000/XP, Linux, DOS driver or info

Basecard PCI 8 Channel

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
IC8GP	125,--	121,--	114,--



Up to 4 external modules can be connected to a TTL base card IC8G I/O over DB-25 rounding cord. A universal combination of digital inputs/outputs is very simply realizable. All modules are in the metal case with LED status indicators for all channels, screw terminals for the connection and connecting cable.

Item-No.: IC8GP

PCI (PnP) – Base-card with 8 I/O ports with each 8 I/0-Lines for the connection of four external IC8... Control module. Connection with 25-pole DSUB rounding cords. Several IC8GP boards are possible in a system.

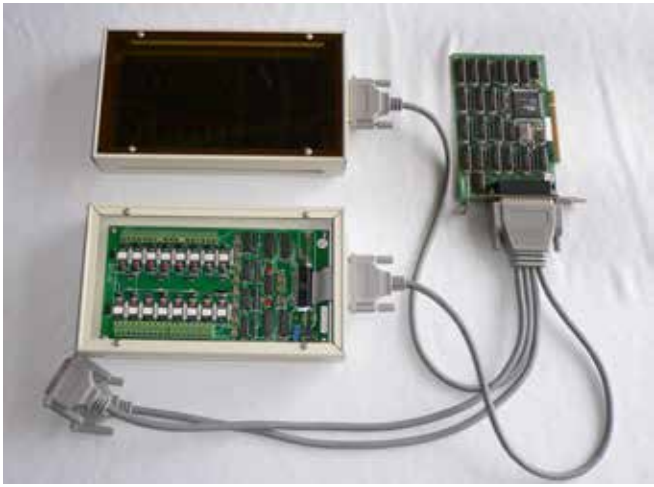
Basecard ISA 8 Channel

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
IC8GE	48,--	45,--	42,--

Item.-No.: IC8GE

Base card with 8 I/O ports - each with 8 I/0-Lines for the connection of four external IC8... Control module. Connection with 25-pole DSUB rounding cords. 16 addresses are variable between H180 and H1F8. Several IC8G boards are possible in a system

Samplel IC8GE + IC8P + IC8R

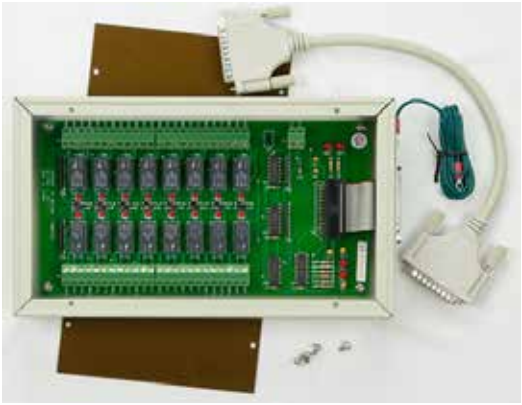


ISA/PCI digital I/O Relay/Optoisolator - ext.

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
IC8R	108,--	102,--	90,--
IC8P	93,--	86,--	80,--

For all items in this page you need a basecard IC8GE/P

Up to 4 modul's can be connected to a basecard!



16 Relay 2A

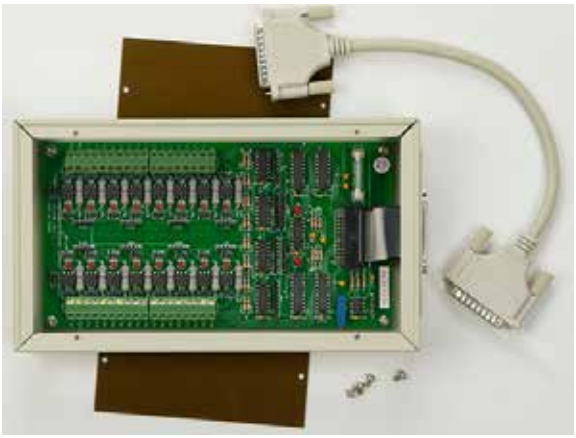
Item-No.: IC8R

Controlmodul for IC8G support 16 SPDT Relay
LED indicates when relay is energized
Internal and external power selectable
Built-in screw terminals for easy wiring
The Normal Open (NO), Normal Close (NC) and Common contacts of each relay are brought out to the screw connector
Breakdown voltage: 500V minimum
Max. contact rating 150V/DC 2A, 125V/AC
Relay on 3 ms typ, Relay off 2 ms typ,
Switching time 10 ms typical
Isolation resistance: 100M typ
Life expectance: 5 million operationat full load
Power consumption +12V 40mA for each relay, 0,55 A for all relays are energized +5V <0,2A, -12V <0.1A
Metallcase.
Every external connection over screw-type connection wedge with connecting cable for IC8G

16 Optoisolator

Item-No.: IC8P

Controlmodul for IC8G with 16 Opto-In
Support 16 opto-isolated input channels
LED indicates when relay is energized
Internal and external power selectable
Built-in screw terminals for easy wiring
Isolated or non-isolated modes selectable
Input signals are buffered with voltage comparators
Input threshold voltage adjustable
Breakdown voltage: 1500 VDC
Screw terminal
Input current: 80mA maximum for each isolated input
Input voltage: 30VDC maximum for each isolated input
Metallcase.
Every external connection over screw-type connection wedge with connecting cable for IC8G

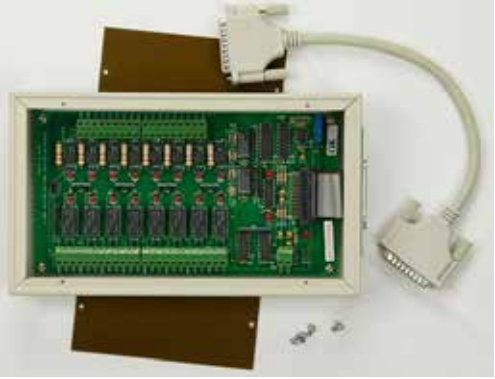


ISA/PCI digital I/O
Relay/Optoisolator - ext.

For all items in this page you need a basecard IC8GE/P

Up to 4 modul‘s can be connected to a basecard!

Artikel-Nr. / Item-No	€ 1 +	€ 3 - 9	€ 10 +
IC8K	119,--	112,--	95,--
IC8RH	129,--	122,--	112,--
IC8SL	61,--	54,--	49,--
IC8SD	189,--	182,--	175,--
IC8SA	189,--	182,--	175,--



8 Relay + 8 Optoisolator

Item-No.: IC8K

Controlmodul for IC8G with 8 Relay and 8 Opto-In.
LED indicates when relay is energized
Internal and external power selectable
Built-in screw terminals for easy wiring
Breakdown voltage: 500V minimum
Max. contact rating 150V/DC 2A, 125V/AC
Isolated or non-isolated modes selectable
Input signals are buffered with voltage comparators
Metallcase.
Every external connection over screw-type connection wedge with connecting cable for IC8G

16 Relay 10A

Item-No.: IC8RH

Support 16 relay output channels.
LED indicates when relay is energized.
Provides 12VDC from internal PC bus or up to 24VDC external power
Built in screw terminals for easy wiring.
The Normal Open (NO), Normal Close (NC), and Common contacts (COM) of each relay are brought out to the screw connector.
Max contract rating: 250VAC 10 Amp, 30VDC 10Amp.
Operate (set) time: 15ms max.
Release (reset) time: AC 10ms max, DC 5ms max.
Max Operating voltage 380VAC or 125VDC, and max operating current 10A.
Max switching capacity 2500VA 300W.
DC coil 24VDC for 1100 ohm resistance or 12VDC for 275 ohm resistance.

8 SSR-Relay + 8 digital-Out

Item-No.: IC8SL no SSR

Item-No.: IC8SD 8 x DC-SSR

Item-No.: IC8SA 8 x AC-SSR

Controlmodul for IC8G 8 SSR-Relay 8 digital out.
Support 8 SSR output channels and 8 logical output channel
The SSR operation characteristics are similar to relay
Provides more than 12 Types of SSR output module
LED indicates when relay is energized
Built-in screw terminals for easy wiring
Maximum voltage of logical output channel is 40V DC
Maximum sink current of logical output channel is 100mA
Without SSR - please order discretely

PCI digital I/O
8255/8254

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
8255-P2	95,--	93,--	88,--
ADAP-37	9,--	8,50	8,--

Item-No.: 8255P2

The 8255 I/O card is a programmable peripheral interface for the PCI-slot. The interface card contains 8254 chip and 8255 chips, the 8254 chip provides programmable interval timer/counter function, and the 8255 chips provide programmable input/output functions.

2 x 8255 (OKI M82C55A-2) - 1 x 8254 (OKI M82C54-2)
32-bit PCI bus with Plug and Play (PnP) features
Up to 48 I/O lines. TTL - 5V
Maximum of 2 MHZ count rate.
Three independent 16 bits counter.
Support several operating modes which are programmable.
Sixteen LEDs indicate when I/O is operating.
Connection with 40-Pin connector on the card
Port address PnP

With Windows-95/NT/2000/XP,Vista, Linux, DOS driver or info

D-SUB Adapter 37-Pin

Item-No.: ADAP37

Adapter for 40-Pin pinconnectors. Extends the cable connection on the plate in the computer to a DB-37 socket in the Slotbracket. Set with two cable adapters (40-Pin pin row on DB-37) suitably for 8255N and RELOP16.

PCI digital I/O
8 x 8255 / 2 x 8254

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
8255-PMV	153,--	147,--	140,--

Item-No.: 8255PMV

8 x 8255 (OKI M82C55A-2) - 2 x 8254 (OKI M82C54-2)

32-bit PCI bus with Plug and Play (PnP) features
Programmable I/O control functions.
Up to 192 I/O lines. TTL - 5V
Maximum of 2 MHZ count rate.
Six independent 16 bits counter.
Support several operating modes which are programmable.
Port address PnP

50-Pin connector on the card and flatcable.
The SUB-D version is out of production

With Windows-2000/XP,Vista, Linux, DOS driver or info

ISA 8255/8254
48 x I/O

Artikel-Nr. / Item-No	€ 1 +	€ 3 - 9	€ 10 +
8255N	35,50	33,--	31,--

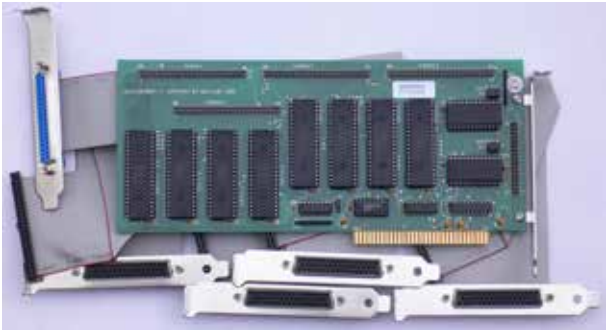
Item-No.: 8255N

The 8255 I/O card is a programmable peripheral interface for PC/XT, PC/AT, 80386, 80486 or compatible. The interface card contains 8254 chip and 8255 chips, the 8254 chip provides programmable interval timer/counter function, and the 8255 chips provide programmable input/output functions.

2 x 8255 (OKI M82C55A-2) - 1 x 8254 (OKI M82C54-2)
8-Bit PC-add-on-card
Programmable I/O control functions.
Up to 48 I/O lines. TTL - 5V
Maximum of 2 MHZ count rate.
Three independent 16 bits counter.
Support several operating modes which are programmable.
Sixteen LEDs indicate when I/O is operating.
Connection with 40-Pin connector on the card
Port address selectable. H1BO + H1FO (H300 + H360)
Windows-95/NT/2000/XP, Linux, DOS driver or info

ISA 8255/8254
48-192 x I/O

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
82192L	54,50	51,--	48,--
82192V	88,--	85,--	82,--



Item No.: 82192L with 2 x 8255

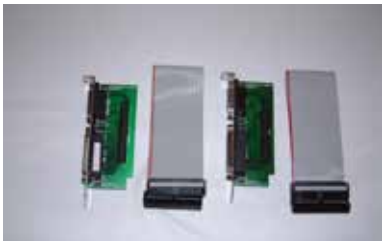
Item No.: 82192V with 8 x 8255

The multiple 8255 I/O card is a programmable peripheral interface for PC/XT, PC/AT or compatibles. The interface card provides 192 parallel input output (PIO) programmable line, and six independent 16 bits counter/clock.

2 (8) x 8255 (OKI M82C55A-2) - 2 x 8254 (OKI M82C54-2)
82192L can be upgraded with 6 x 8255
Programmable I/O control functions.
Up to 192 parallel I/O lines. TTL - 5V
Maximum of 2.35MHz count rate.
Six independent 16 bits counters.
Support several operating modes which are programmable.
Port address selectable. H100-H128 or H130-H15B (H300 - H32B or H280 - H2AB)
Connection with 4x 50 and 1 x 34 Pin + DSUB in the slotbracket
8-Bit PC-add-on-card
With Windows-95/NT/2000/XP, Linux, DOS drivers or info

8255/8254 Accessories

Artikel-Nr. / Item-No	€ 1 +	€ 3 - 9	€10 +
8255KA	35,--	34,--	32,--
8255-IC	2,90	2,80	2,70



Pocket-Cablekit for 8255N and P2

Item-No.: 8255KA

Cablekit to use Pocket-I/O together with a 8255 card

Sample PDI-16, PDO-16 or PRELOP

More adapters you can find on page 20

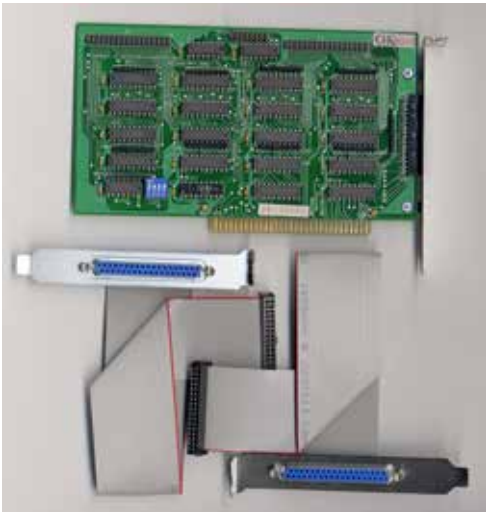
Spare-IC for 8255N and P2

Item-No.: 8255-IC

OKI M82C55A-2 for all 8255 cards

ISA TTL-I/O

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
TTLIO	53,--	49,--	47,--



Item-No.: TTLIO

The TTL input/output card is a programmable I/O interface for PC/XT, PC/AT, or compatible computer. It provides total 64 I/O lines for inputting /outputting TTL digital signal. Each I/O port can be set either input or output by user's program.

Features:
Provides eight I/O ports.
Each port contains 8 I/O lines, total 64 I/O lines.
Input/output selectable for each port.
Standard +5V TTL digital signal.
LED indicates when port is operating.
Port address selectable.

PCI A/D-D/A Card 12 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
AD12-P5	228,--	213,--	203,--

Item-No.: AD12-P5

The PCI bus 12 bit data acquisition card is a high precision data conversion/acquisition system. It contains 16 analog to digital channels with unipolar or bipolar input, 2 digital to analog channels with unipolar or bipolar output and 1 digital I/O channel with 16 bit line. The on board 8254 (71054) chip provides programmable interval timer/counter functions to trig A/D conversion. The PCI bus 12 bit data acquisition card also provides interrupt driven for convention A/D input.

32 bits PCI bus with Plug and Play (PnP) features.
Programmable I/O control functions.
Provides 16 A/D channels and the resolution is 12 bits.
Provides 2 D/A channels and the resolution is 12 bits.
Unipolar or bipolar selectable.
Input voltage range from 0 to 10V or 0 to 20V for unipolar, and from -5V to 5V or -10V to 10V for bipolar.
Provides 1 digital input/digital output channels , the resolution is 16 bits.
Provides three 16 bits counter to trig A/D conversion.
Provides software, external hardware signal or internal counter to trig A/D conversion. By using sampling and hold to get A/D signals.
Interrupt or polling driven selectable.
Gain control factor selectable from 1 to 8.

PCI A/D-D/A Card 14 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
AD14-P.....	238,--	223,--	213,--

Item-No.: AD14-P1 bipolar -5V - +5V
Item-No.: AD14-P2 bipolar -10V - +10V
Item-No.: AD14-P3 unipolar 0V - +5V
Item-No.: AD14-P4 uniolar 0V - +2,5V
Item-No.: AD14-P5 bipolar -2,5V - +2,5V

The PCI bus 14 bit data acquisition card is a 32 bits PCI bus adapter with Plug and Play (PnP) features, it is a programmable I/O interface for Pentium or compatible computers. The PnP features let hardware configuration for IRQ and I/O address is detected by BIOS automatically, you don't need set switch and jumper.

32 bits PCI bus with Plug and Play (PnP) features.
Programmable I/O control functions.
Provides 16 A/D channels and the resolution is 14 bits.
Provides 2 D/A channels and the resolution is 14 bits.
D/A voltage range from 0 to 10V or –10V to 10V selectable.
Different on board A/D chips selectable. The input voltage range from 0 to 2.5V or 0 to 5V for unipolar, and from –2.5V to 2.5V or –5V to 5V or –10V to 10V for bipolar.
Provides 1 digital input/digital output channels and the resolution is 16 bits.
Provides three 16 bits counter to trig A/D conversion.
Provides software, external hardware signal or internal counter to trig A/D conversion.
By using sampling and hold to get A/D signals.
Interrupt or polling driven selectable.
Gain control factor selectable from 1 to 8.

ISA A/D-D/A Card 12 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
DCI-12L	63,--	53,--	49,--

A/D:
•Support sixteen 12 bits channels.
•Input voltage. (adjust by VR) ◦unipolar: 0V to 9V.
◦bipolar: -9V to 9V.
•Unipolar or bipolar selectable.
•Successive approximation method.
•Conversion 100 samples/second
•I/O port address: &H278-27F or &H2F8-2FF selectable.

D/A:
•Support one 12 bits channel.
•Output voltage. (adjust by VR) ◦unipolar: 0V to 9V.
◦bipolar: -9V to 9V.
•Unipolar or bipolar selectable,
•Current setting time 500nsec.
•Nonlinearity 0.2%.

Software/Driver:
English manual with adjusting plan, terminal diagram, data sheets and sample programs Windows-98/NT/2000/XP,(Vista), Linux driver or info

ISA A/D-D/A Card 12 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€10 +
DCI-12S2	102,--	95,--	90,--

A/D
•Resolution: 12 bits.
•Converter: ◦12 Bit A/D 7541 ACN -no S &H
•Input Voltage Range: ◦unipolar or bipolar selectable.
◦unipolar input 0 to 2.5V, 0 to 5V, 0 to 10V
◦bipolar input -2.5V to 2.5V, -5V to 5V, - 10V to 10V

•Conversion: 100 samples/second
•Accuracy: 1/2 LSB.
•Output Coding: binary.
•Maximum Input Without Damage: +12V.
•Channel number: ◦16 channels:
single-ended input.
◦8 channels: differential input.

•Temperature Coefficient: 88 ppm/c.
•I/O port address selectable.
•LED indicates when adapter is operating.

D/A
•Resolution: 12 bits
•Output Channel: two. (one standard,
one optional)
•Output Voltage Setting: ◦unipolar or
bipolar selectable.
◦unipolar output
◦0 to 2.5V, 0 to 5V, 0 to 10V.
◦bipolar output
◦-2.5V to 2.5V, -5V to 5V, -10V to 10V

•Conversion time: less than 2usec.
•Output Impedance: suggest to load impedance large than 2K ohm
•Accuracy: 1/2 LSB.
•Temperature Coefficient: 80 ppm/c
•A/D-D/A interface card.
•User's manual. Incl. Demonstration-Software, WIN-DLL, Win-98/NT/2000 driver, Software-Sample

Software/Driver:

English manual with adjusting plan, terminal diagram, data sheets and sample programs
Windows-98/NT/2000/XP, (Vista), Linux driver or info

Accessories

Artikel-Nr.	€ ab 1	€ 3 - 9	€ ab 10
TERM-25F	19,--	18,--	17,--
TERM-37M	29,--	27,--	25,--
TERM-37MH	34,--	33,--	31,--
ADAP-37	9,--	8,50	8,--
STE-50	3,50	3,40	3,30
STE-37	2,50	2,30	2,20
KA-37-1			
KA-37-2	9,50	9,--	8,50
KA-25-1FM			
KA-25-3FM			
KA-25-10FM			

Screwterminal with D-SUB

Item-No.: TERM-37M

Connectionkit DB-37 with screwterminal.
Including cable,

Item-No.: TERM-37MH

Connectionkit DB-37 with screwterminal + DIN-Rail-Adapter
Including cable,

D-SUB Adapter 37-Pin

Item-No.: ADAP37

Adapter for 40-Pin pinconnectors. Extends the cable connection on the plate in the computer to a DB-37 socket in the Slotbracket. Set with two cable adapters (40-Pin pin row on DB-37) suitably for 8255N and RELOP16.

D-SUB Connector 50-Pin — **Item-No.: STE-50** Plug DB-50 with soldering cup, inclusive hood

D-SUB Connector 37-Pin — **Item-No.: STE-37** Plug DB-37 with soldering cup, inclusive hood

D-SUB Cable 37-Pin — **Item-No.: KA-37-1** Cable DB-37 F/F 50cm

D-SUB Cable 37-Pin — **Item-No.: KA-37-2** Cable DB-37 M/F 2m. Also to extend the spider leads of 4-port Multiserial-Cards.

RS-232 - RS-422 - RS 485
2 - 4 - 8 Port
PCI-Express - PCI - ISA
Converter

More information in the catalogue

or at

www.decision-computer.de

PCI Express 2 Port RS-232

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-2XP	,--	,--	,--

PCI Express 4 Port RS-232

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4XP	88,--	82,--	75,--

PCI Express 8 Port RS-232

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-8XP	99,--	95,--	91,--

PCI Bus 2 Port RS-232

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-2PF	81,--	78,--	75,--

PCI Bus 2 Port RS-422

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
422-2PF	93,--	88,--	86,--

PCI Bus 2 Port RS-485

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
485-2PF	88,--	85,--	83,--

PCI Bus 4 Port RS-232

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4PF	126,--	120,--	113,--

PCI Bus 4 Port RS-422

Artikel-Nr.	€ 1 +	€ 3 - 9	€ 10 +
422-4PF	137,--	133,--	128,--

PCI Bus 4 Port RS-485

Artikel-Nr.	€ 1 +	€ 3 - 9	€ 10 +
485-4PF	137,--	133,--	128,--

PCI Bus 8 Port RS-232

Artikel-Nr.	€ 1 +	€ 3 - 9	€ 10 +
232-8PF	173,--	167,--	160,--

PCI Bus 8 Port RS-422

Artikel-Nr.	€ 1 +	€ 3 - 9	€ 10 +
422-8PF	194,--	190,--	182,--

PCI Bus 8 Port RS-485

Artikel-Nr.	€ 1 +	€ 3 - 9	€ 10 +
485-8PF	194,--	190,--	182,--

PCI 2 Port RS232 or RS422/485
Optoisolated

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-2PFI	128,--	123,--	118,--
422-2PFI	134,--	129,--	124,--

PCI Bus 4/8 Port Adapter

RS232 or RS422/485 isolated

Artikel-Nr. Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4PFI	167,--	165,--	162,--
422-4PFI	187,--	182,--	176,--
232-8PFI	263,--	248,--	213,--

Low Profile Universal PCI Bus 4 Port Adapter

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4ULL	172,--	166,--	162,--
232-4ULH	177,--	170,--	166,--

Low Profile Universal PCI Bus 8 Port Adapter

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-8ULL	192,--	186,--	180,--
232-8ULH	197,--	180,--	175,--

PCI Bus 2 Port Adapter
RS-232/422/485 Hybrid

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-2PHY	92,--	90,--	81,--

PCCOM PCI 4 PORT HYBRID
RS-232/422/485 on one board

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4PHY	153,--	146,--	140,--
232-4PHX	172,--	165,--	159,--

2 Port RS-232 - ISA-16 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-2EF	29,--	28,--	27,--

4 Port RS-232 - ISA-8 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4F	62,--	53,--	49,--

4 Port RS-232 - ISA-16 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-4EF	88,--	85,--	81,--

8 Port RS-232 - ISA-16 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-8EF	168,--	166,--	158,--

8 Port RS-232 - ISA-8 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-8RF	145,--	141,--	
232-8DF	145,--	141,--	

2 Port RS-422/485 - ISA-8 Bit

Artikel-Nr. Item-No.	€ 1 +	€ 3 - 9	€ 10 +
422-2F	57,--	54,--	49,--

2 Port RS-422/485 - ISA-16 Bit

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
422-2EF	57,--	54,--	49,--

8 Port RS-422 - ISA-16 Bit

Artikel-Nr. Item-No.	€ 1 +	€ 3 - 9	€ 10 +
422-8EF	198,--		

Repeater RS-232

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
232-REP	42,--	37,--	33,50

Current-Loop-20 mA

RS-232 / 20mA

Artikel-Nr. Item-No.	€ ab 1 +	€ 3 - 9	€ 10 +
232-20	44,--	39,--	35,--

Converter RS-232-RS422/485

Artikel-Nr. / Item-No	€ 1 +	€ 3 - 9	€ 10 +
422-CON	44,--	39,--	35,--
422-ISO	57,--	52,--	46,--
485-ISO	57,--	52,--	46,--
422/485-CON	64,--	59,--	53,--

RS-232/232 Isolator DIN-Rail

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
H232-ISO	84,--	79,--	75,--

RS-232/422 Converter DIN-Rail

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
H422-CON	84,--	79,--	75,--

RS-232/485 Converter DIN-Rail

Artikel-Nr. / Item-No.	€ 1 +	€ 3 - 9	€ 10 +
H485.CON	84,--	79,--	75,--

General Terms and Conditions of Business - Page 1 of 2

All deliveries and performances are based on the terms and conditions listed below. They apply and are understood to be exclusively agreed by means of order placement or acceptance of the performances and/or the delivery. Adverse or conflicting terms and conditions of the purchaser will not be recognised. With the issue of this price list, all other price lists are null and void.

Order placement
Orders can be placed either orally or in writing. Confirmations are only given for larger objects upon request of the customer. Alterations of order or nullifications of orders for merchandise not in accordance with the catalogue or for customised products are not possible.

Quotations
All quotations are subject to confirmation. We reserve the right to prior sale, printing errors, error and alterations. All dates of delivery are not binding. Partial deliveries are acceptable. Any events whatever, which are outside of our scope of responsibility, such as shortage of raw materials, strikes or legal disputes at our subsuppliers or any other causes and circumstances which prevent or hinder us in the fulfilment of contractual delivery obligations, entitle us to rescission or to delay the fulfilment of contract. All and any other claims for damages by the purchaser are ruled out in this case.

Shipment
Shipment (as well as export) is to the account and risk of the recipient. Shipment is normally effected according to DHL or UPS-Standard. In the event of special requests of the customer (express or priority deliveries) the extra costs will be charged to the recipient. A transport insurance can be concluded, but only at the expense of the purchaser. Unless otherwise agreed, shipment shall be effected on the basis of payment on delivery.

Prices
All prices are understood in principle to be in Euro, net cash, plus shipment costs and 19% value-added-tax. The respective price valid on the date of delivery will be invoiced.

Terms of payment
Delivery against cheque only for account (cross cheque) – payment on delivery. Against invoice only to schools, institutes and known companies. Unless otherwise agreed specially in writing, invoices are due for payment within 10 days, net cash. For overdue payments, interest will be charged at that rate which the banks charge for corresponding credits. The retention of payments because of all or any counter claims of the purchaser not recognised by the supplier is unacceptable. This shall also apply to any offsetting. Payment by Paypal is possible as from now.

Title of ownership
We supply according to extended right of ownership. The delivered goods remain our property until complete fulfilment of our claims against the purchaser has been effected. Prior to such complete fulfilment of our claims, pledging and assignment for security is forbidden.

Complaints, warranties
The warranty period amounts to 24 months, commencing from the date of invoice. Excluded are articles for which an individual manufacturer has envisaged a longer guarantee period. Within the guarantee period, the merchandise must be sent back to me free, in the original packing with an exact description of the deficiency, together with filled out complaint docket and return docket, as well as a copy of the invoice. Complaints of deficiency and complaints on the quantity of the goods shall be notified in writing by the purchaser immediately, however at the very latest within 8 days after receipt of the goods. The return of the goods as such does not constitute a complaint and does not relieve the purchaser of his obligation to pay the purchase price. If the complaint is justified, we will provide for a replacement after return of the objectionable goods, or we will make improvements according to our discretion and choice. All and any further claims are ruled out. Claims to compensation for damage, which have not occurred on the goods supplied by us, are ruled out. Our warranty obligations are null and void if and when changes or repairs are made on the purchased object(s) by third parties without our prior written consent.

Place of fulfilment / place of jurisdiction
Place of fulfilment and place of jurisdiction for both parts Tecklenburg and, in matters concerning the Regional Court, Münster. German law shall apply.

Liability and obligation of contract
If any individual points of this contract be or become ineffective, the remaining parts of the contract shall not be affected by such.
Trademarks and company names in my price list are registered and protected trademarks of the individual companies as listed.

For export purposes only
Shipment to foreign countries is made in principle only against advance payment (credit card) or payment on delivery.

Shipment costs (DHL) in the foreign countries of the European Union amount to Euro 16 for a weight up to 5 kg (cost price for shipment and credit note of foreign payment). Please enquire for exact details on shipment costs!

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For the use of these products, knowledge of the IRQ and address conflict elimination as well as partial basic knowledge of electronics are necessary.

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Decision Produkte EN 50081-2 (EN 55022 Class A)
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